

Fig. 1

[illegible]

Fig. 2A

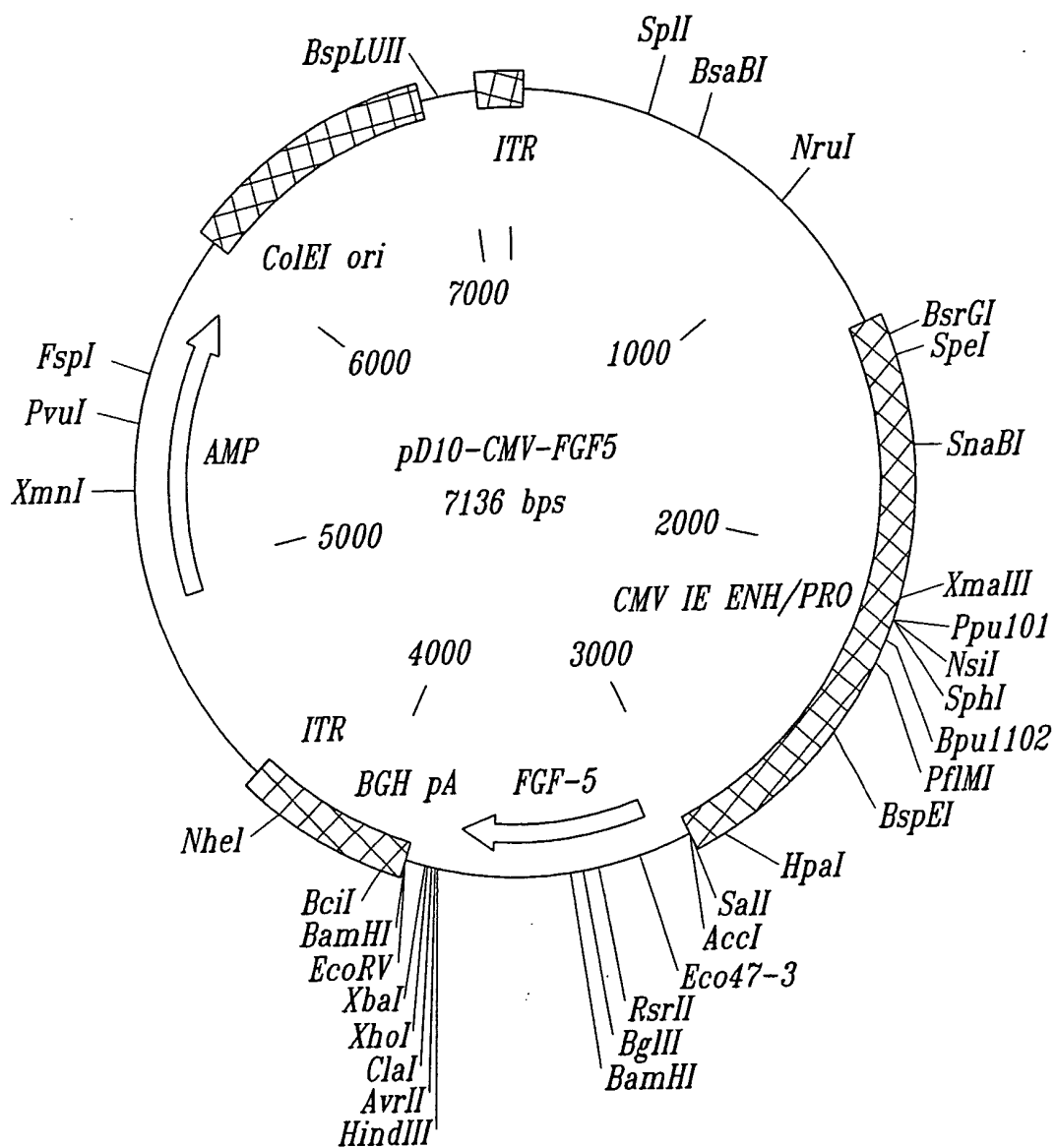


Fig. 3

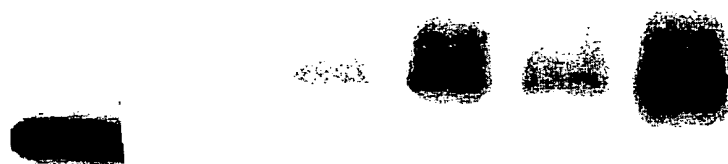
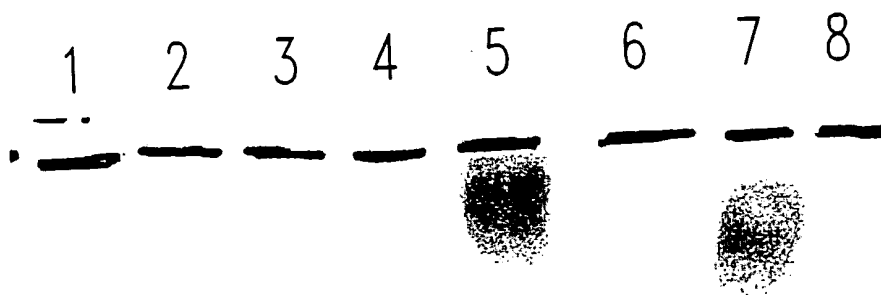


Fig. 4

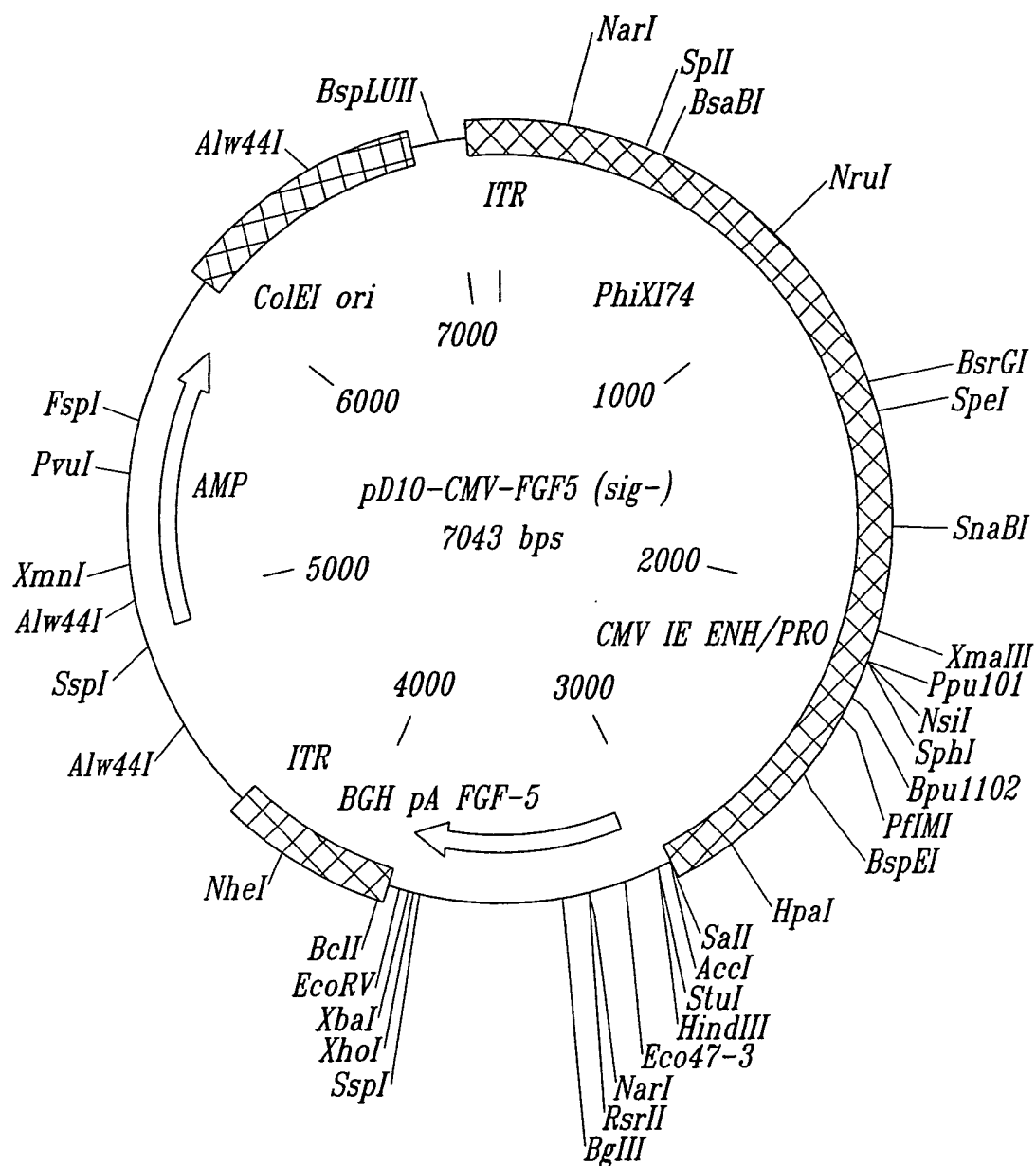


Fig. 5

1 2 3 4 5 6 7



Fig. 6

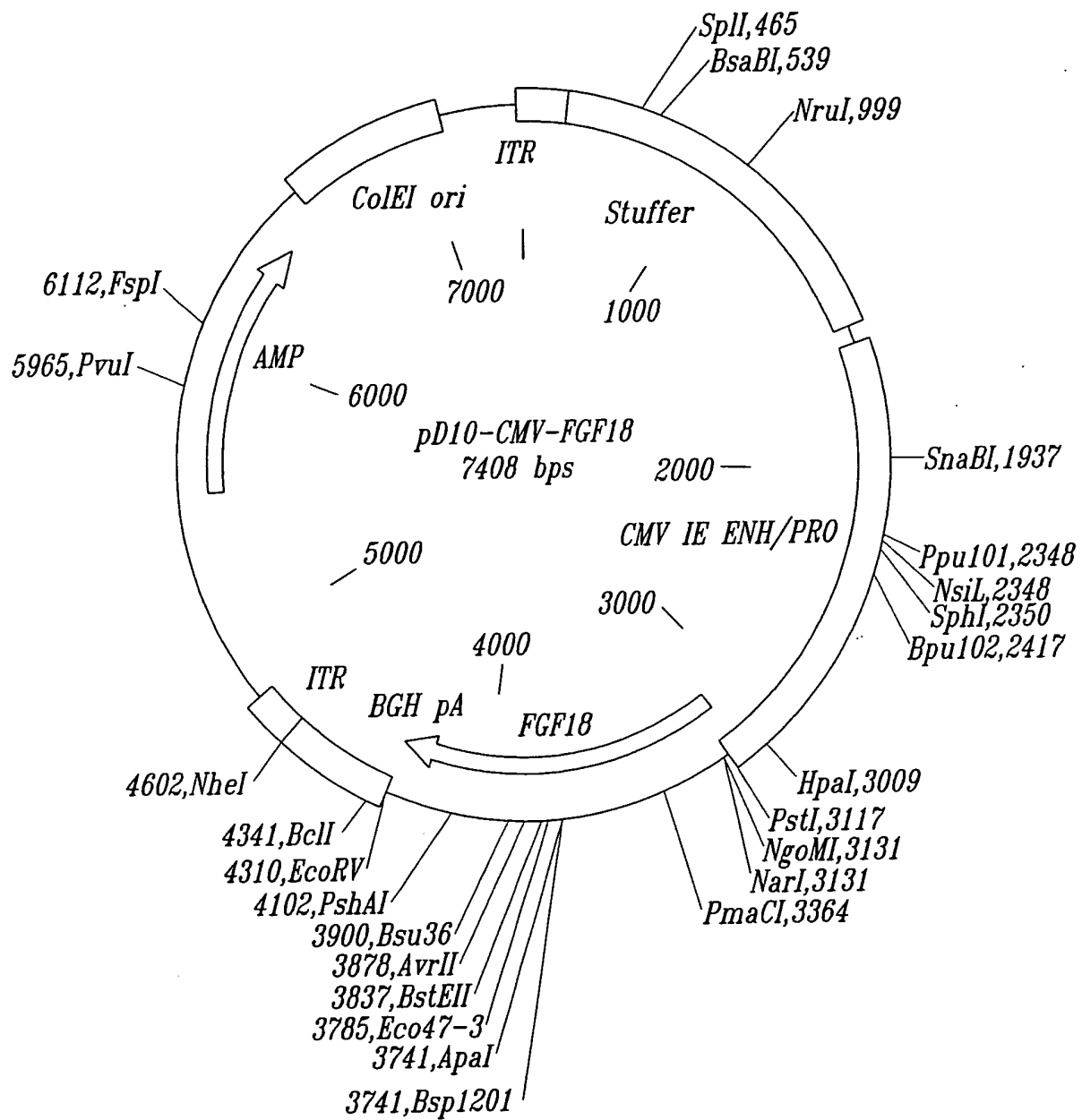


Fig. 7

1 2 3 4 5 6 7 8 9 10

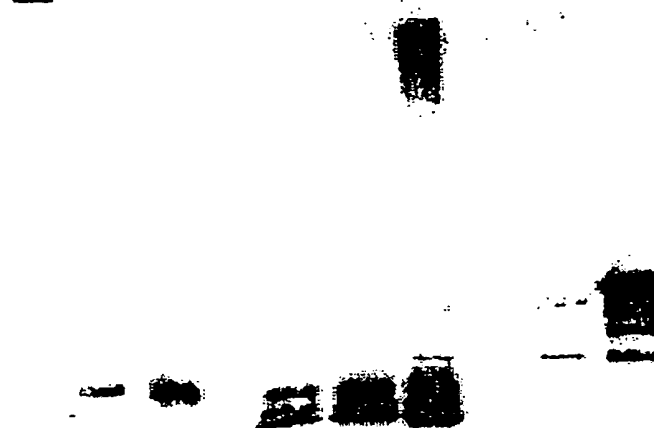
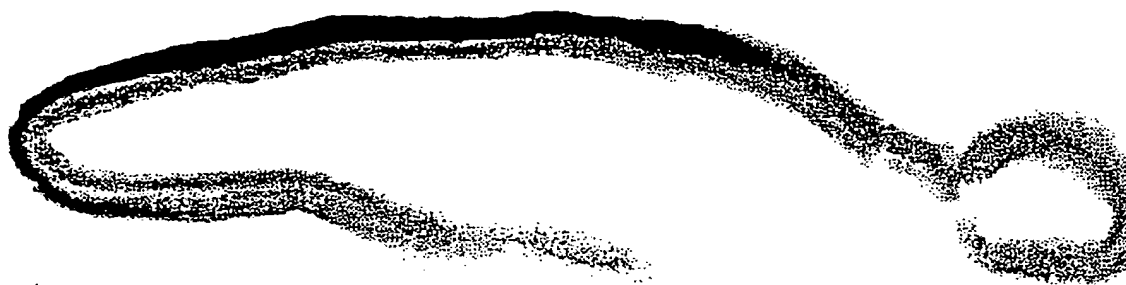
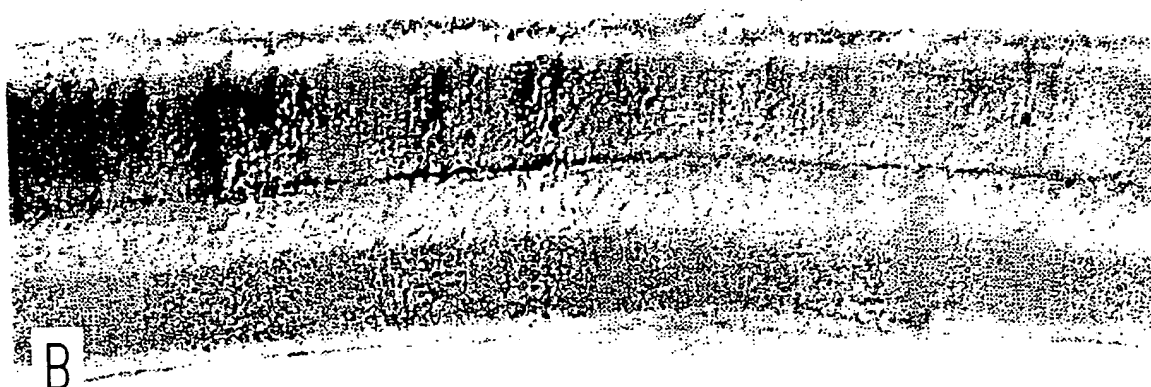


Fig. 8



A



B

Fig. 9

204060-630600

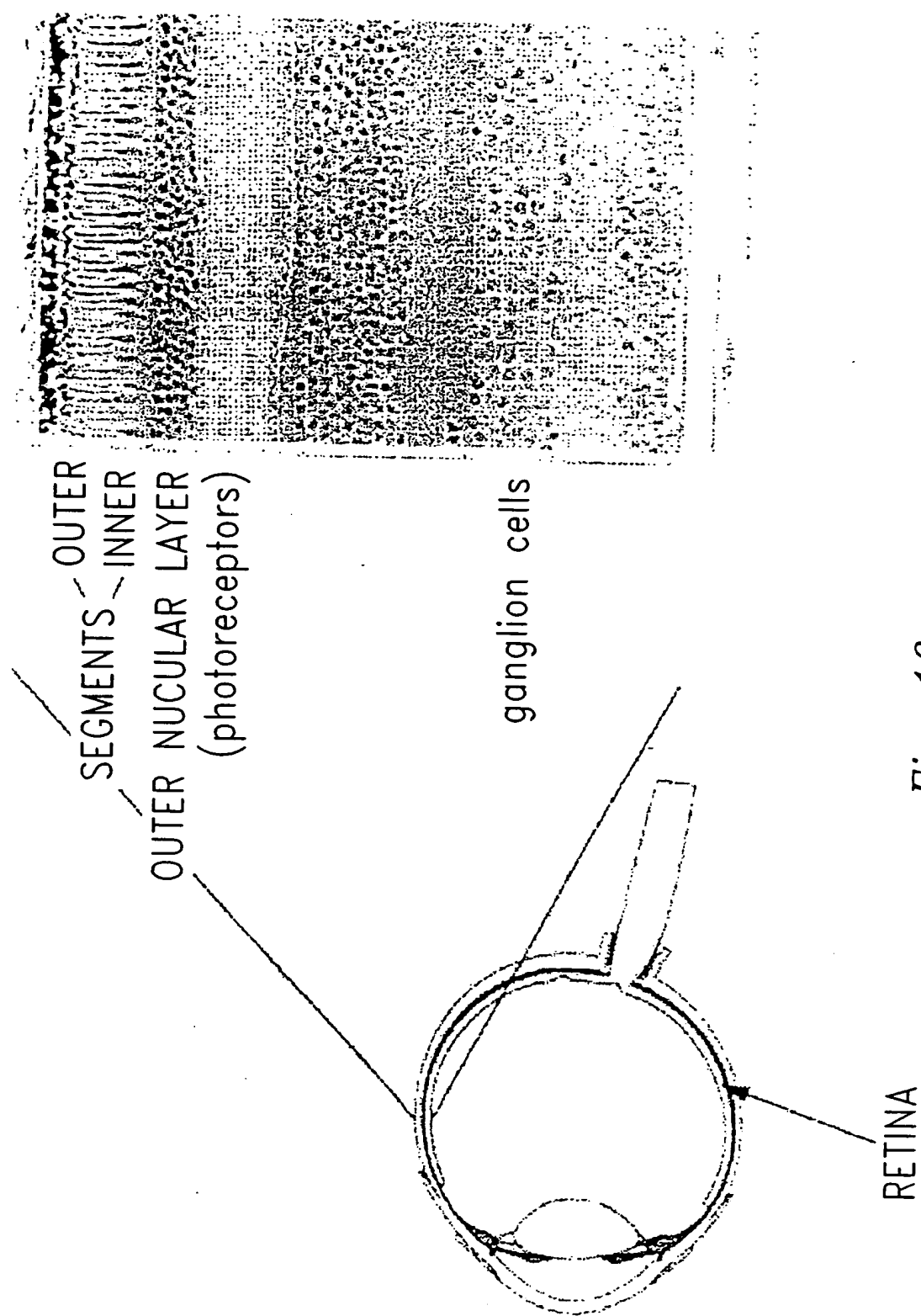


Fig. 10

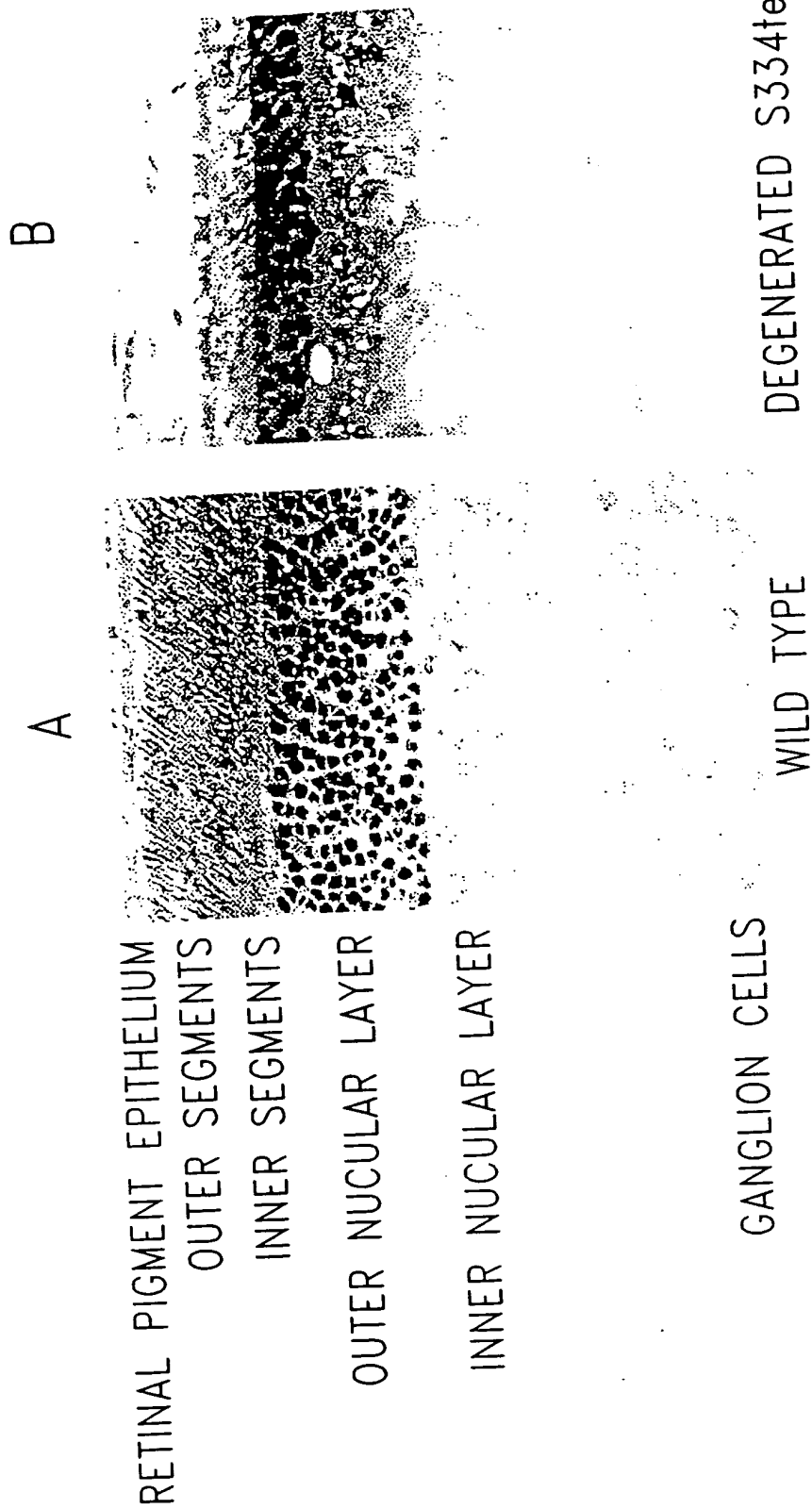
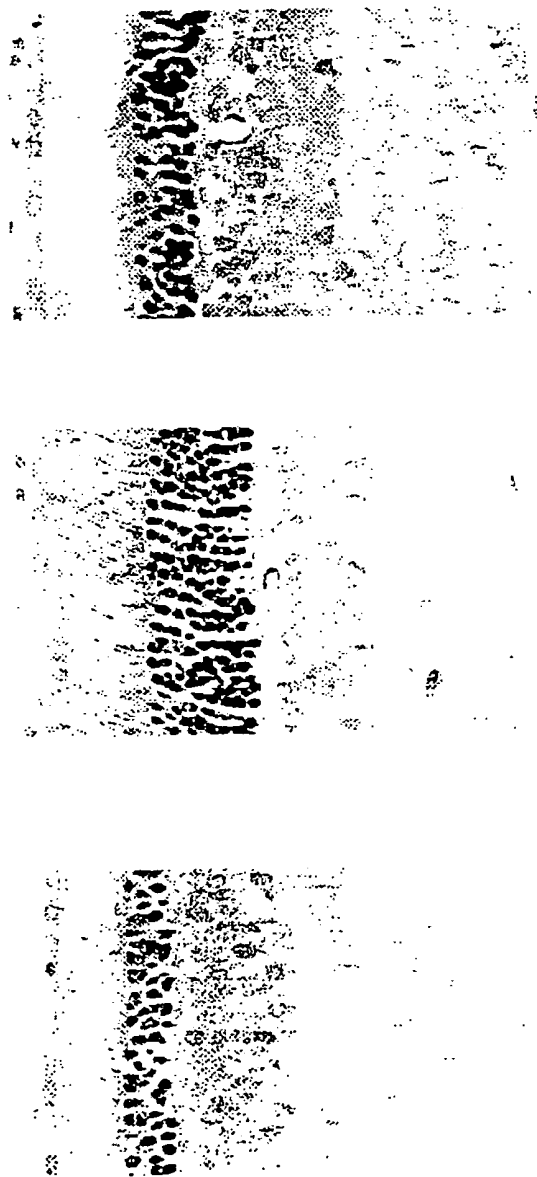


Fig. 11

DEGENERATED S334ter FGF-2 inj S334ter PBS inj S334ter

RPE
OUTER SEGMENTS
INNER SEGMENTS
OUTER NUCULAR LAYER
(PHOTORECEPTORS)
INNER NUCULAR LAYER

GANGLION CELL LAYER



A B C

Fig. 12

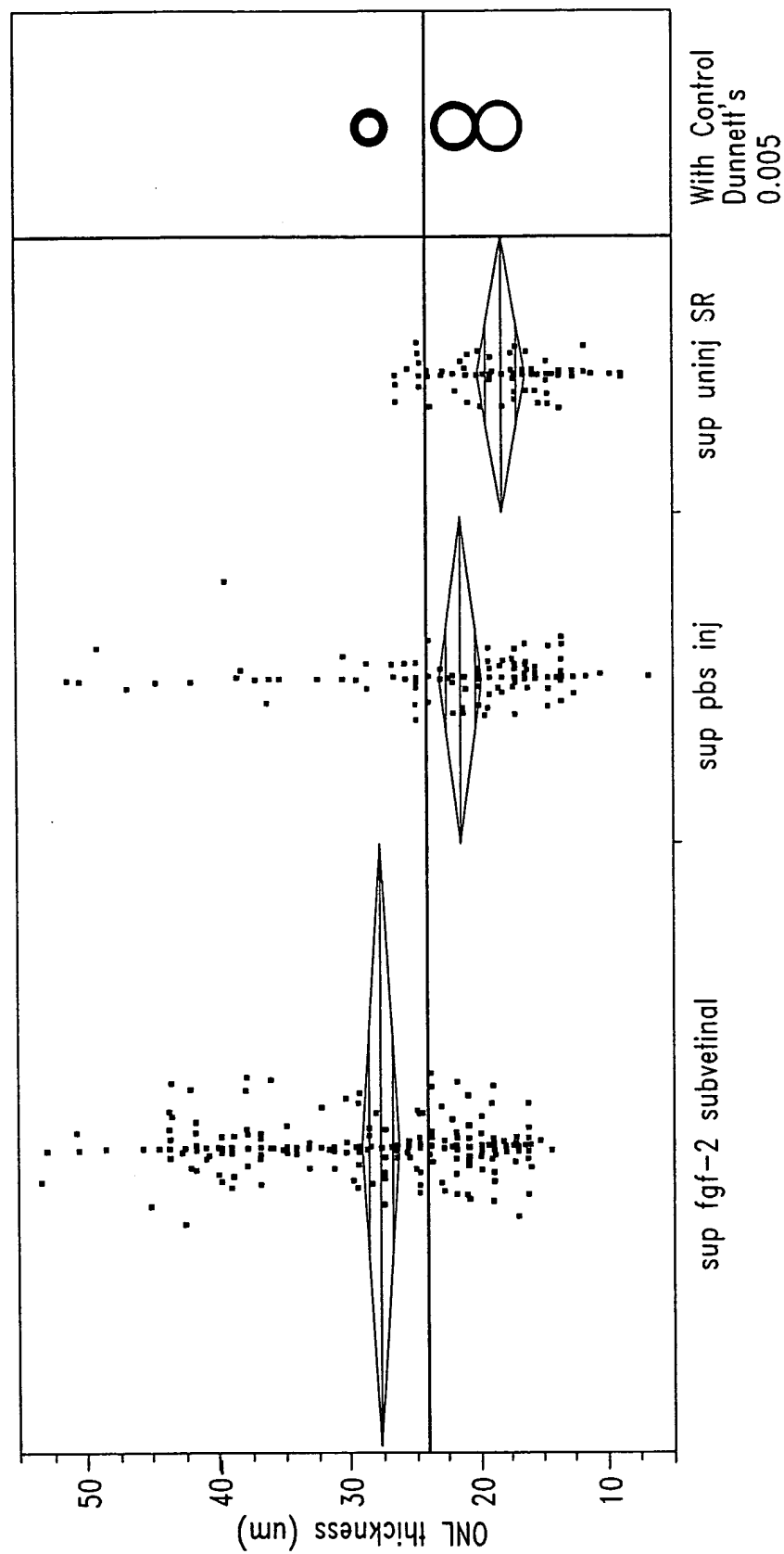


Fig. 13

Figure 14

OUTER NUCLEAR LAYER THICKNESS AT p60

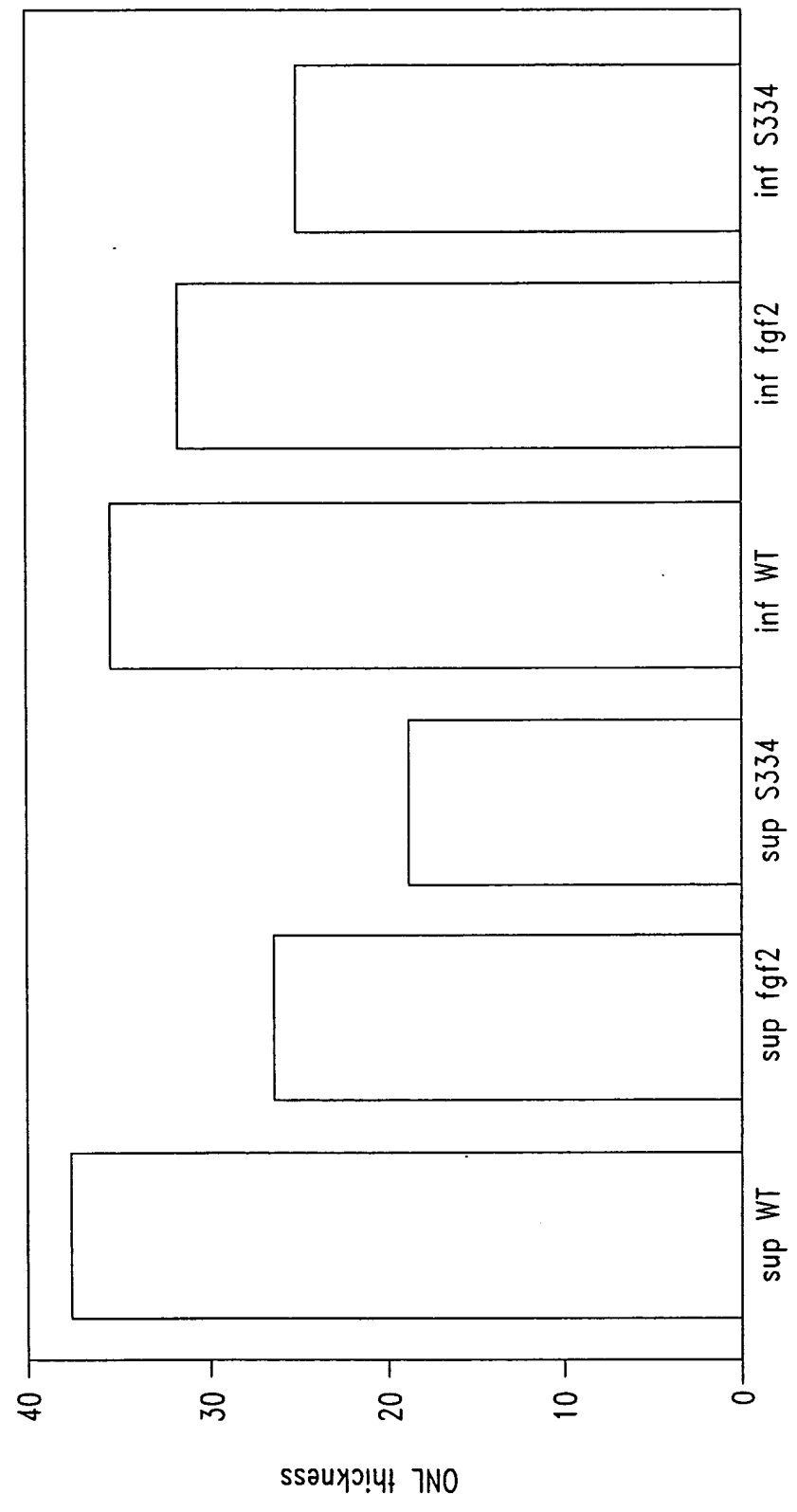
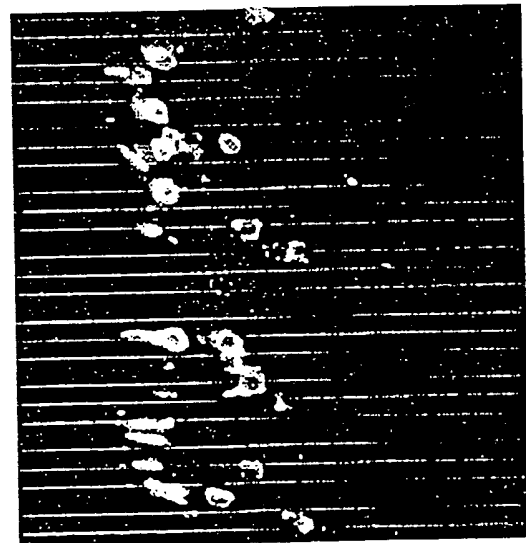


Fig. 14



A

photoreceptors

B

bipolar cells

ganglion cells

3

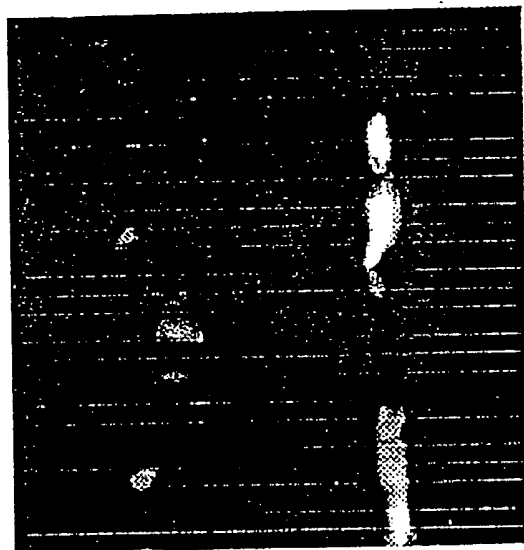


Fig. 15

AAV-LacZ Transduction of Retinal Ganglia

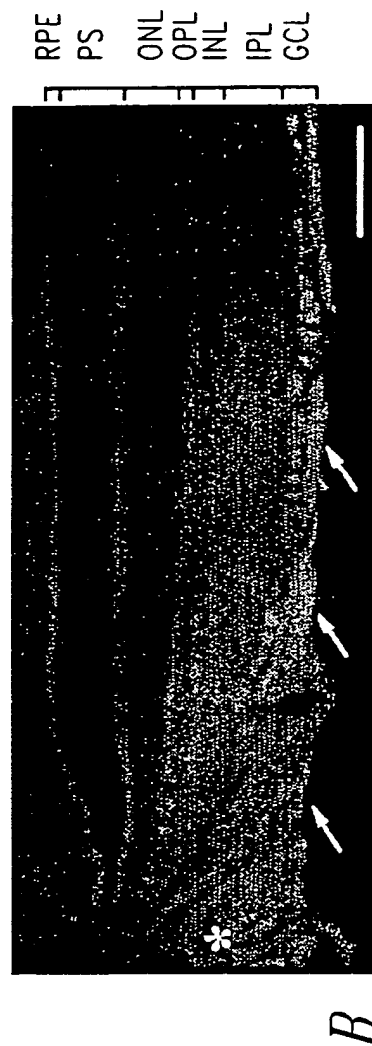
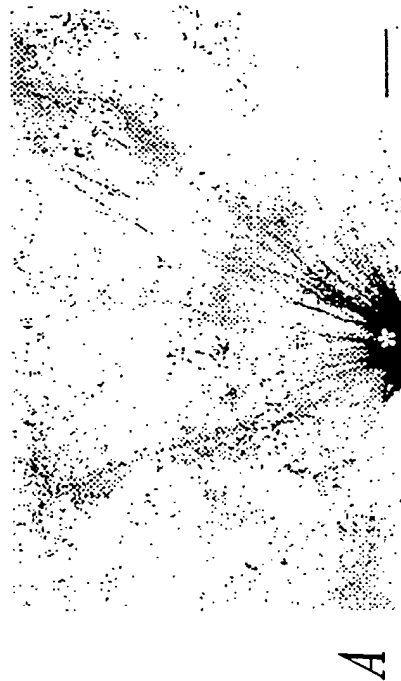
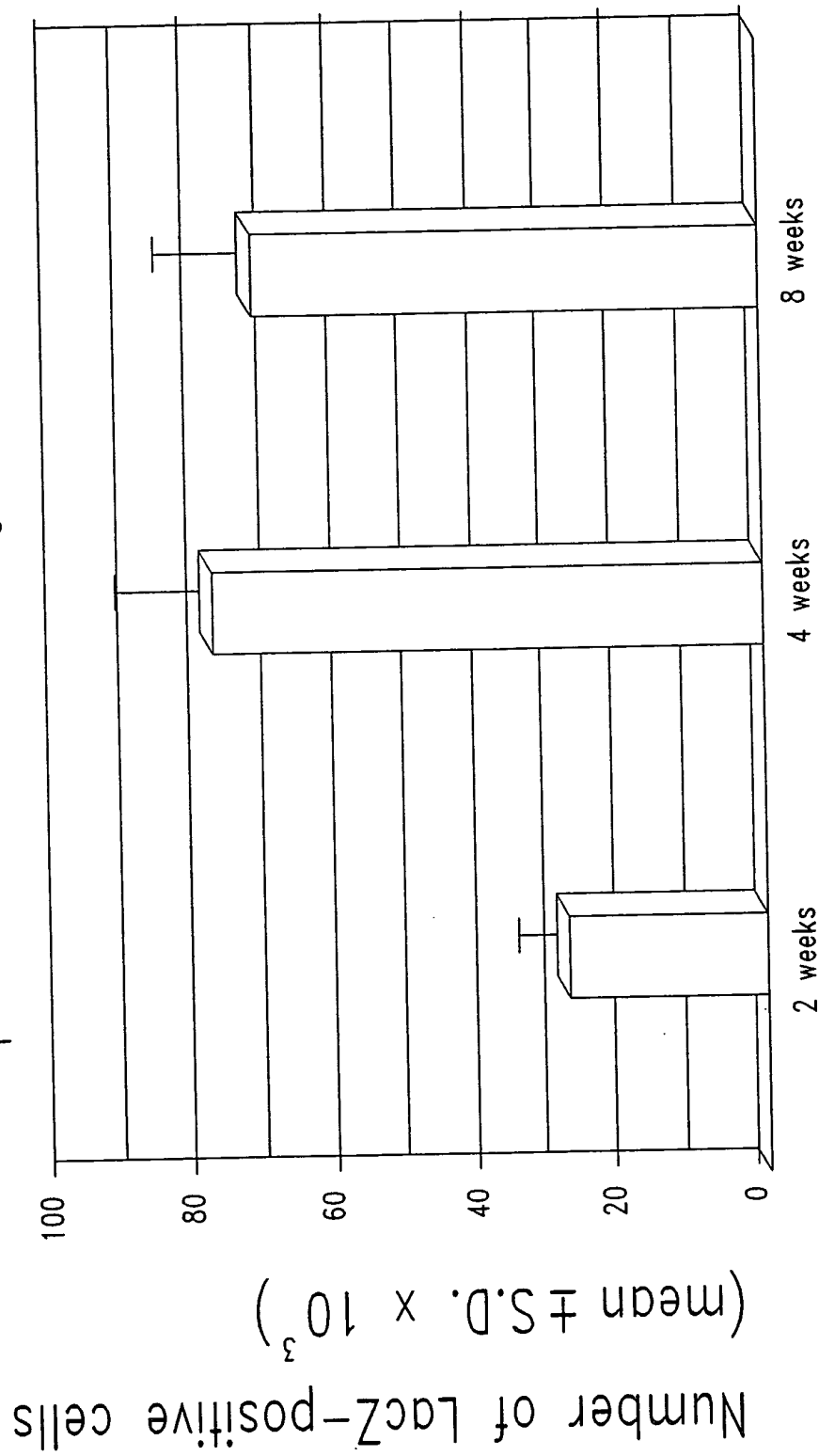


Fig. 16

Time Course of AAV-Medicated Transgene Expression in the Ganglion Cell layer



Time after intraocular injection of AAV

Fig. 17

Localization of AAV-Medicated LacZ Gene Product in Retrograde Labeled RCG

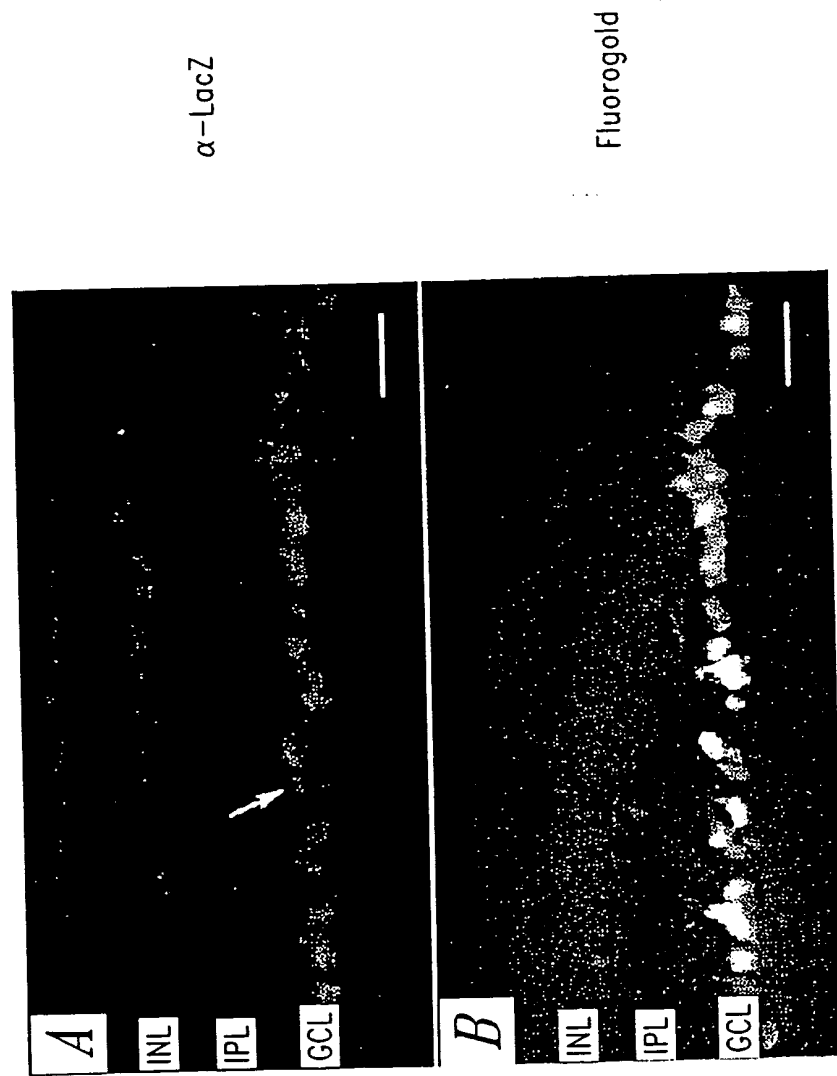


Fig. 18

Quantification of Flourogold and LacZ Positive Cells in the Ganglion Cell Layer Following Intravitreal Injection of rAAV-LacZ

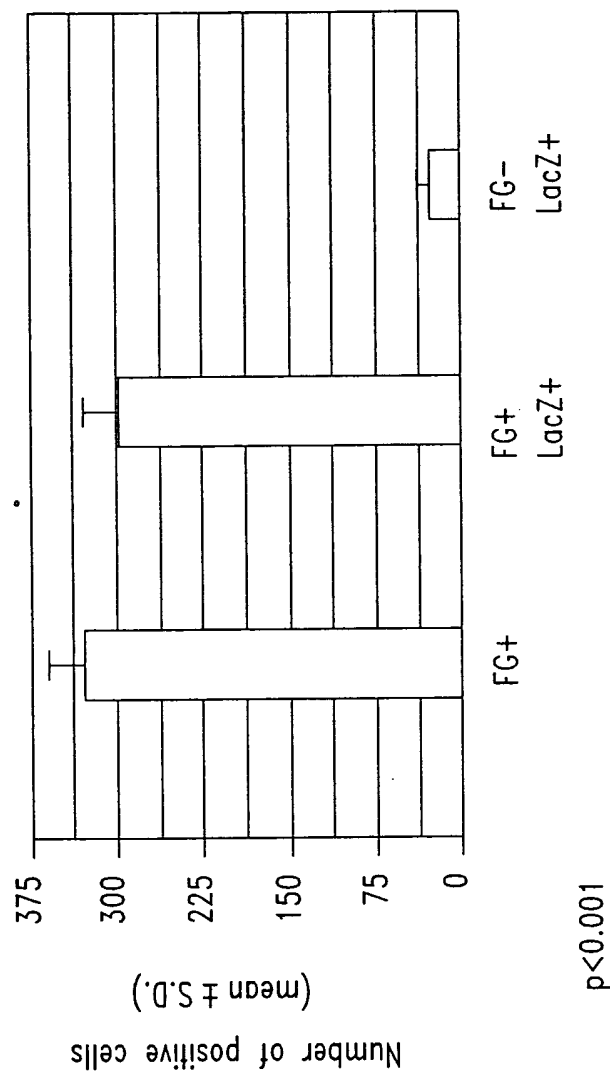


Fig. 19

Localization of Heparin sulfate Proteoglycan, the Cellular Receptor for AAV, in the Adult Rat Retina

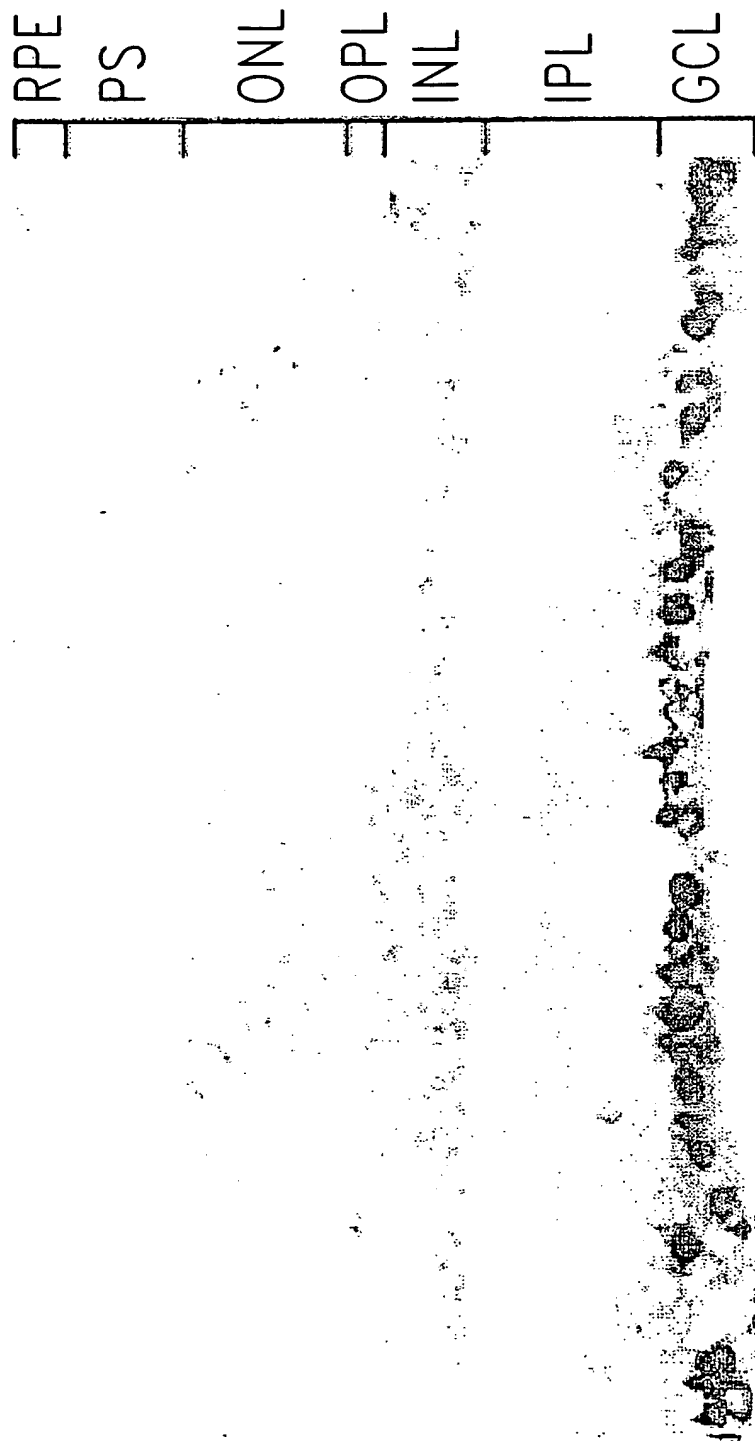


Fig. 20

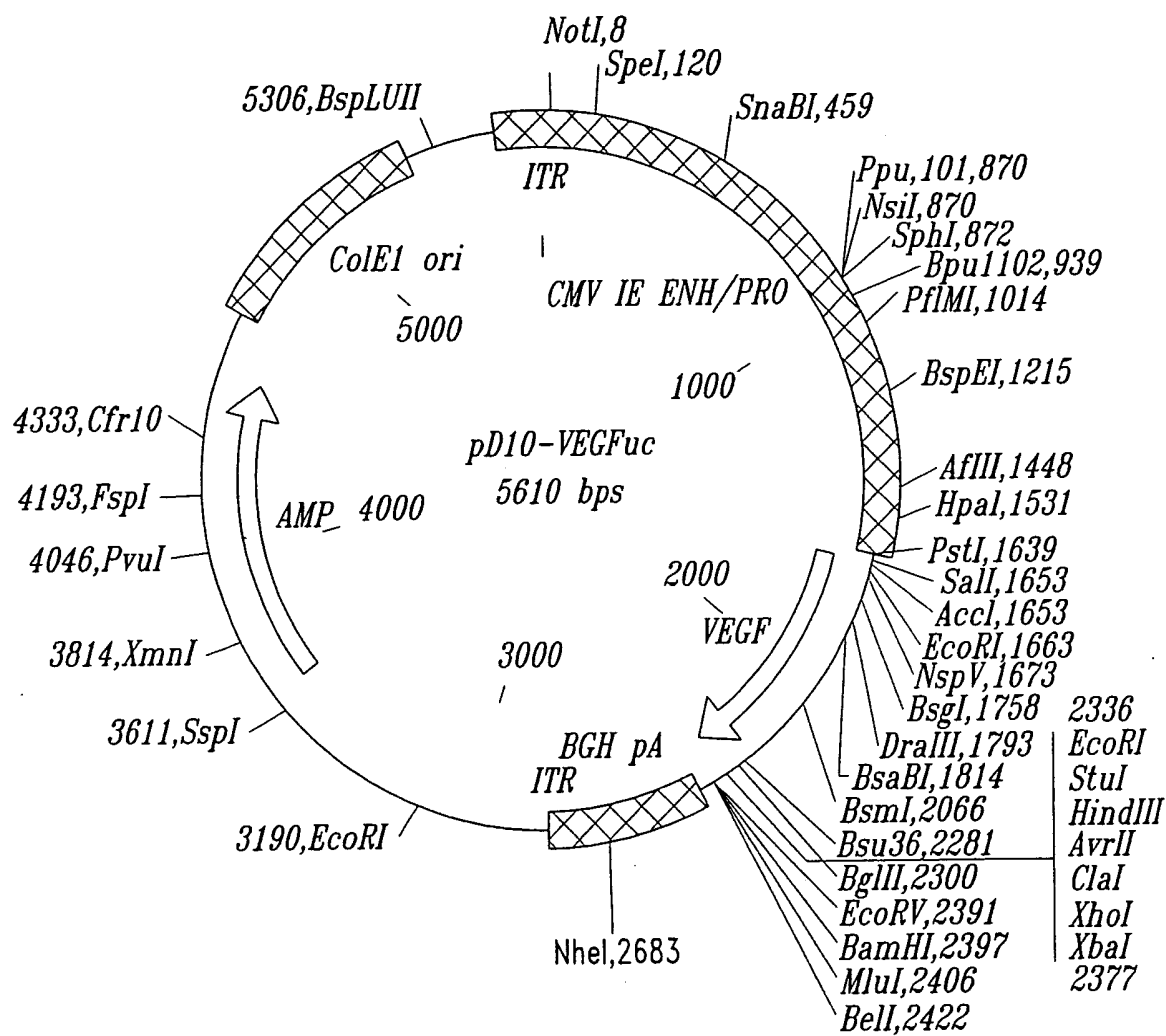


Fig. 21

Nucleotide Sequence of pD10-VEGFuc

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Fig. 22A

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Fig. 22B

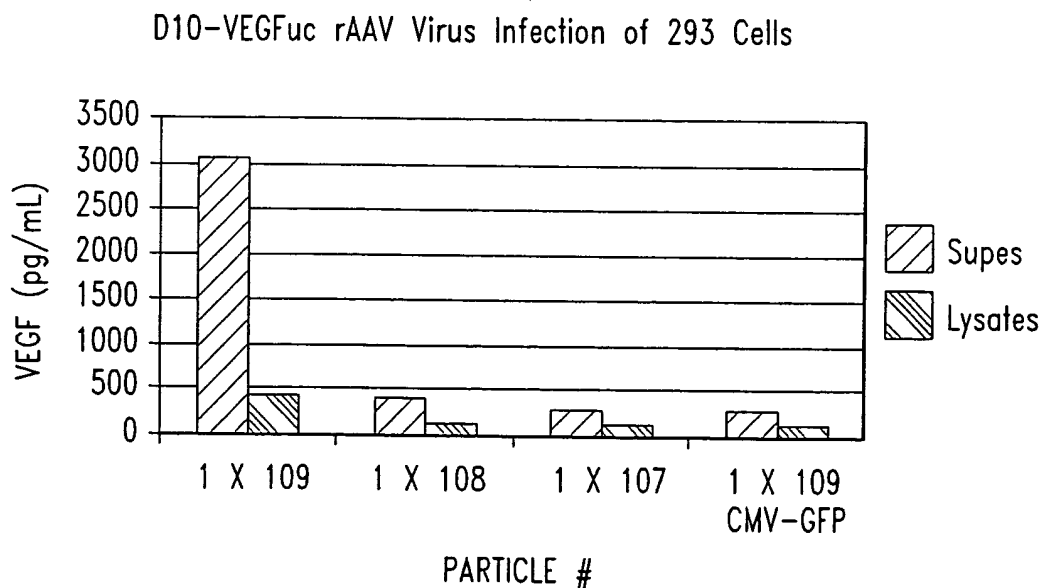
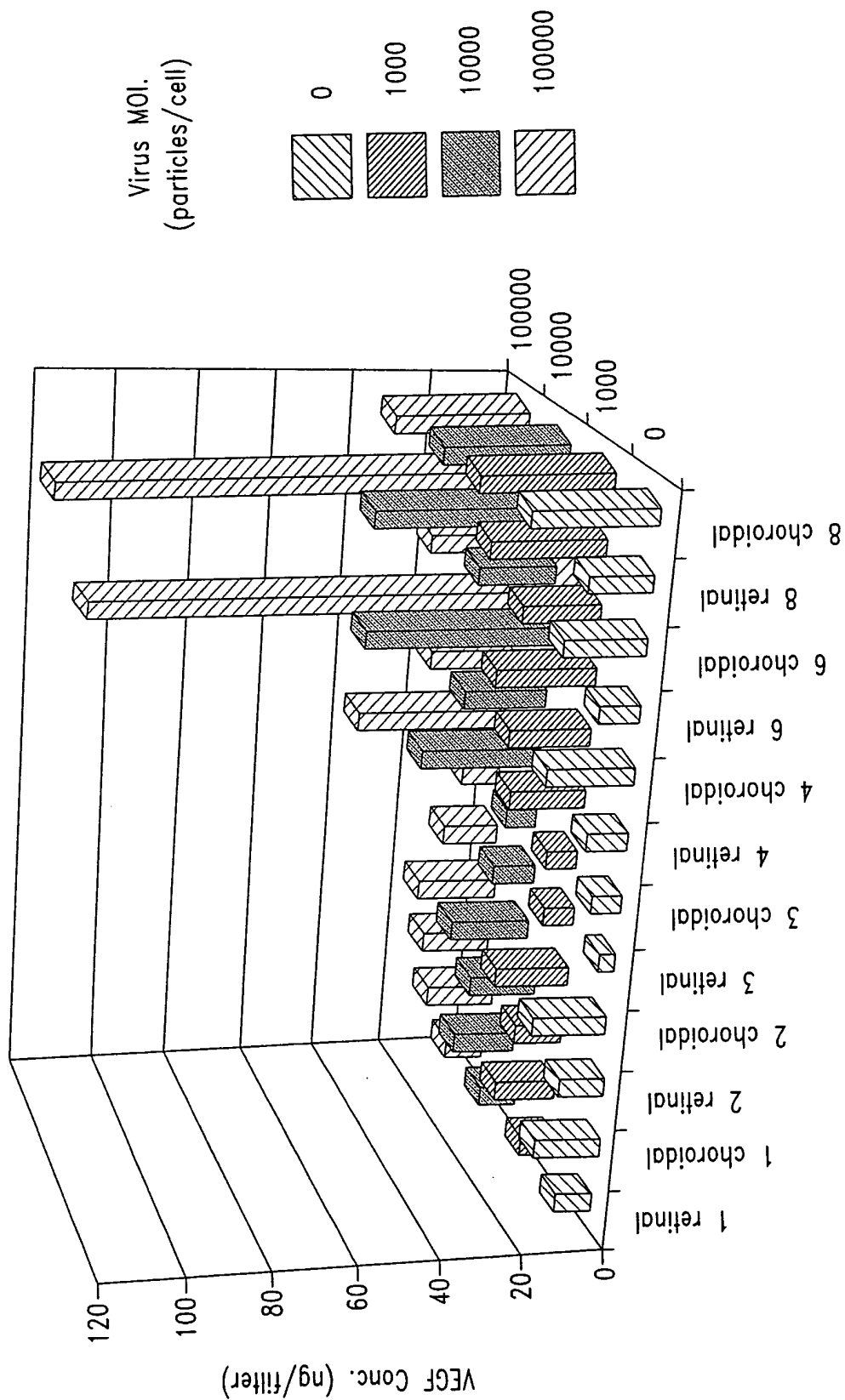


Fig. 23



Time after transfection (Day) and Polarity

Fig. 24

VEGF Secretion by hRPE After Infection with VEGF AV

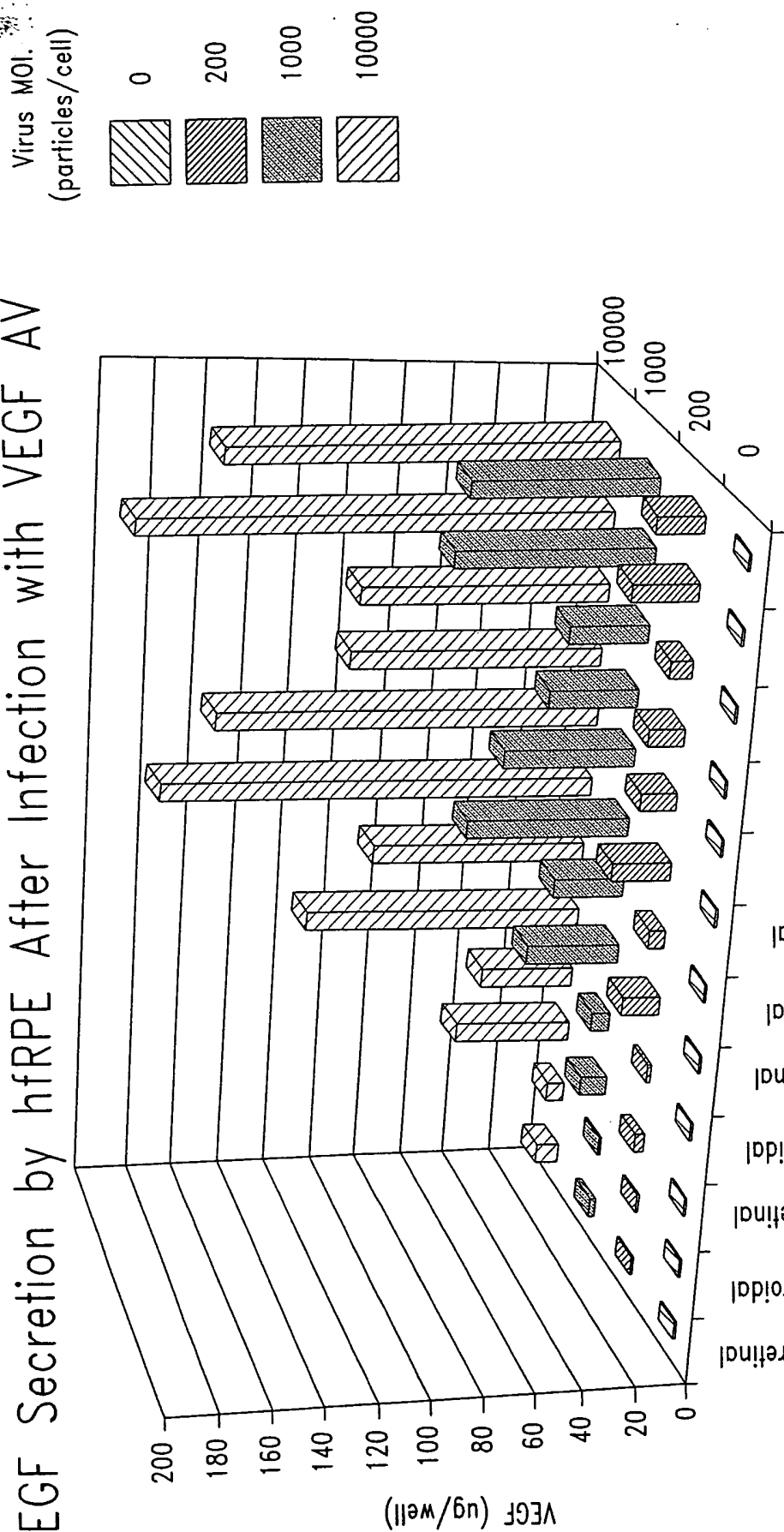


Fig. 25

Resistance of hRPE After Infection with VEGF AV

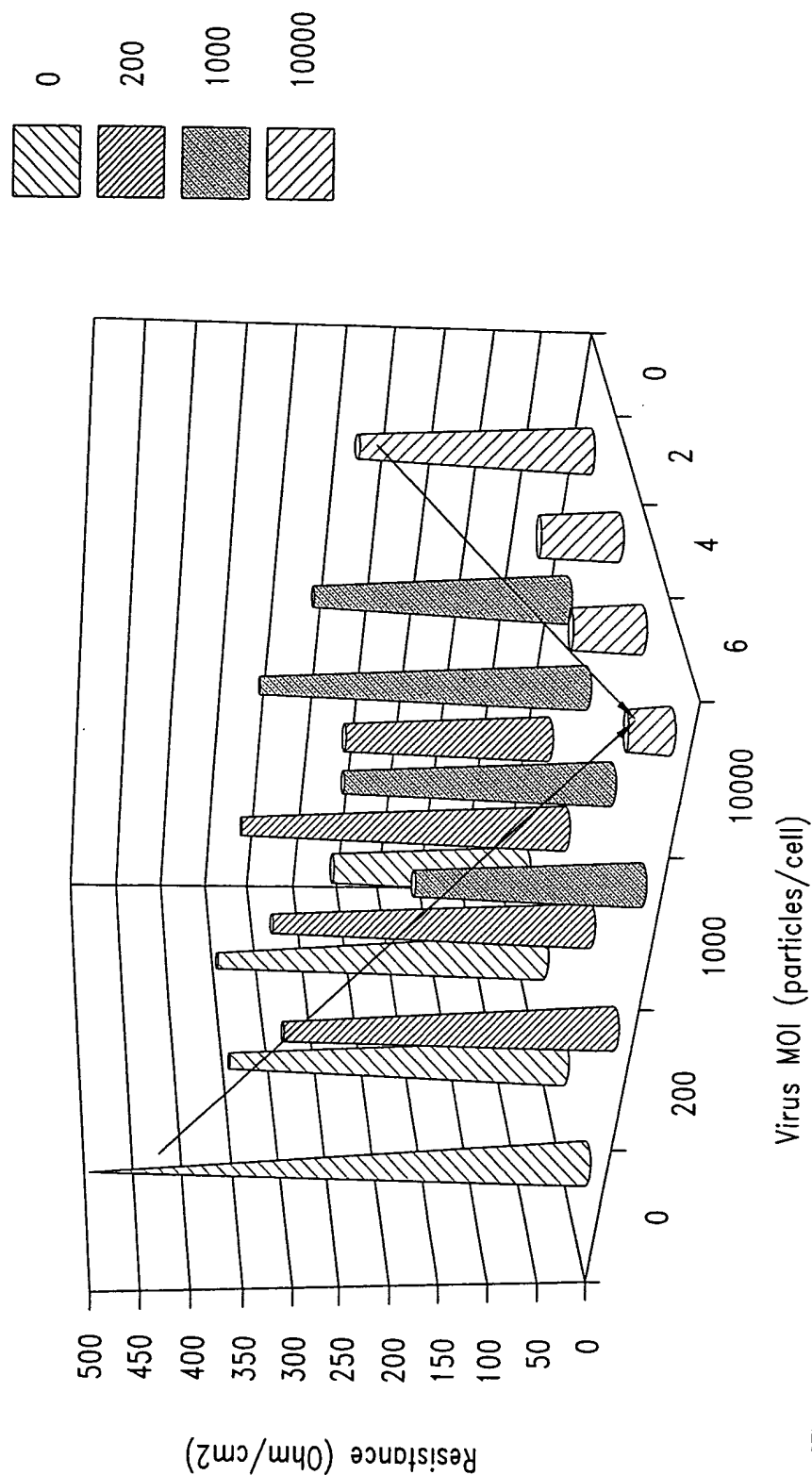


Fig. 26

4044-6509T

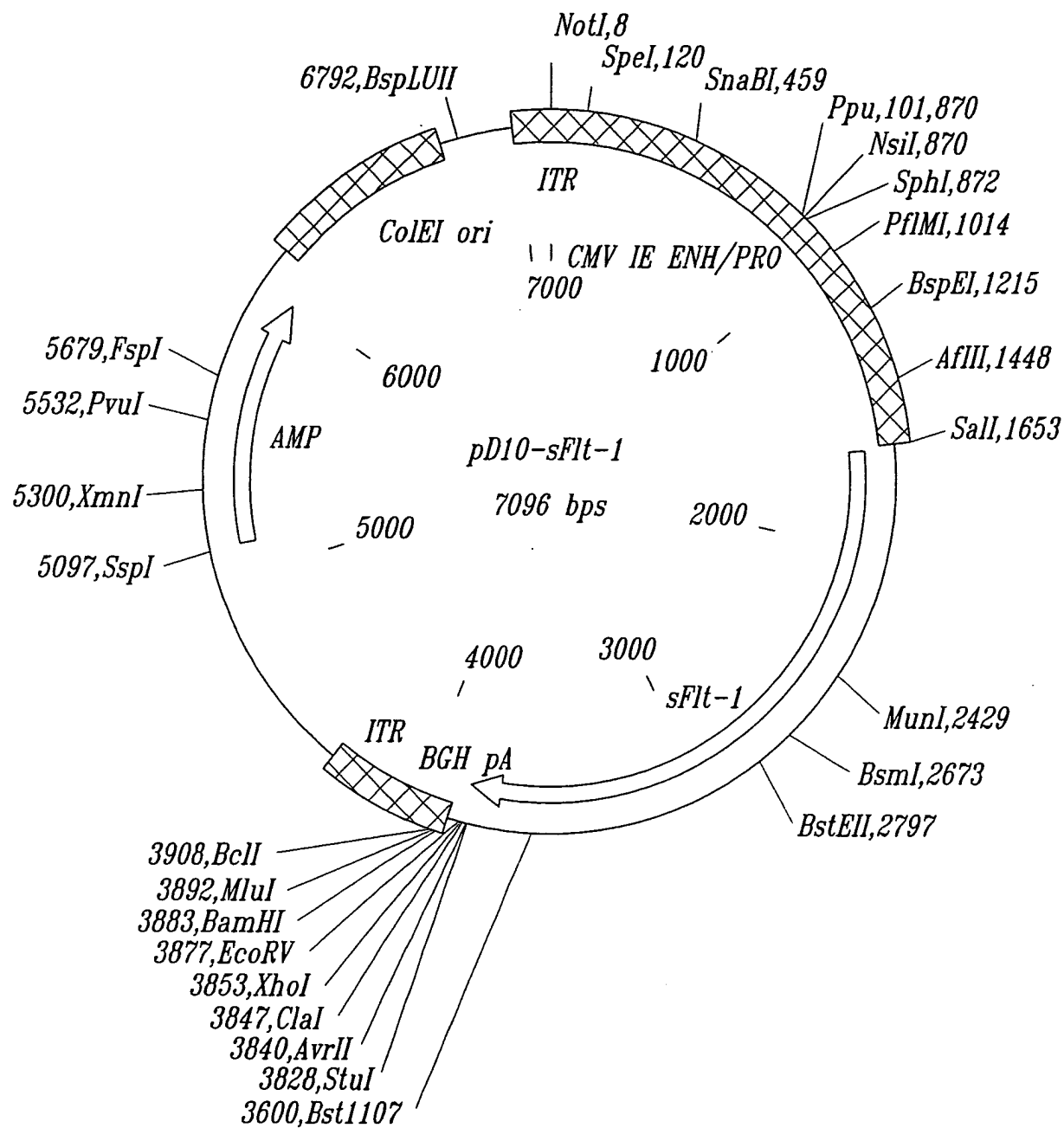


Fig. 27

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Fig. 28A

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CGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACCTGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAACTTCATTTTTAATTTAA
AAGGATCTAGGTGAAGATCCTTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTCGTTCCACTGAGCGTCAGACCCGTAGAAAAGATCAA
AGGATCTTCTTGAGATCCTTTTTTCTGCGCGTAATCTGCTGCTTGCAAAACAAAAAACCACCGCTACCAGCGGTGGTTGTGTTGCCGGATCAAGAGCT
ACCAACTCTTTTTCCGAAGGTAACCTGGCTTCAGCAGAGCGCAGATACCAAACTACTGCTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTC
TGAGCACCGCTACATACCTCGCTCTGCTAATCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGCTTACCAGGTTGGAAGTCAAGACGATA
GTTACCGGATAAAGGCGCAGCGGTGGGGCTGAACGGGGGGTTCTGTCACACAGCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCG
TGAGCTATGAGAAAGCGCCACGCTTCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCAGGAGGGAGCTTCC
AGGGGGAAACGCTGGTATCTTTATAGTCTGTGCGGTTTCCGCACCTCTGACTTGAGCGTCGATTTTGTGATGCTGCTCAGGGGGGCGAGCCTATG
GAAAAACGCCAGCAACGCGGCTTTTACGGTTCCTGGCTTTTGTGGCTTTTGTCTCACATGTTCTTCTGCGTTATCCCTGATTCTGTGGATAA
CCGTATTACCGCTTTTGAGTGAGCTGATACCGCTCGCCGAGCGCAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGGAAGAGCGCCCAATACG
CAAACCGCTCTCCCCGCGGTGGCCGATTATTAATGACGCTGGCGGCTCGCTCGCTCACTGAGGCCGCCGGGCAAAGCCGGGCGTGGGGCGAC
CTTTGGTGGCCCGGCTCAGTGAGCGAGCGAGCGCGCAGAGGGAGTGGCCAACCTCCATCACTGAT

Fig. 28B

HumanFGF-20

atggctcccttagccgaagtcgggggctttctggcgccctggaggcttgggccagcag
M A P L A E V G G F L G G L E G L G Q Q

gtgggttcgatttcctgttgccctcctgccgggagcggccgcctgctgggcgagcgc
V G S H F L L P P A G E R P P L L G E R

aggagcgcggcgagcggagcgcgcgcggcgggcggggctgcgcagctggcgcacctg
R S A A E R S A R G G P G A A Q L A H L

cacggcatcctgcgcgcggcagctctattgccgcaccggcttcacctgcagatcctg
H G I L R R R Q L Y C R T G F H L Q I L

cccgcgcgcagctgcaggccaccggcaggaccacagcctcttcggtatcttgaattc
P D G S V Q G T R Q D H S L F G I L E F

atcagtgtggcagtgggactggtcagtagaggtgtggacagtggctctatcttga
I S V A V G L V S I R G V D S G L Y L G

atgaatgacaaaggagaactctatggatcagagaaacttactccgaatgcatctttagg
M N D K G E L Y G S E K L T S E C I F R

gagcagttgaagagaactggtataacacctattcatctaacaatataaactggagac
E Q F E E N W Y N T Y S S N I Y K H G D

actggccgcaggtattttgtggcacttaacaaagacggaactccaagagatggcgccagg
T G R R Y F V A L N K D G T P R D G A R

tccaagaggcatcagaaatttacatttctacctagaccagtggatccagaaagagtt
S K R H Q K F T H F L P R P V D P E R V

ccagaattgtacaaggacactactgatgtacacttga
P E L Y K D L L M Y T

Fig. 29

Mouse FGF-21 cDNA in pGEM-T

gagcgcagccctgatggaatggatgagatctagagttgggaccctgggactgtgggtccg SEQ ID NO: 1
M E W M R S R V G T L G L W V R SEQ ID NO: 2

actgtgctggctgtcttctgctgggggtctaccaagcataccccatccctgactccag
L L L A V F L L G V Y Q A Y P I P D S S

ccccctcctccagtttgggggtcaagtccggcagaggtacctctacacagatgacgacca
P L L Q F G G Q V R Q R Y L Y T D D D Q

agacactgaagcccacctggagatcagggaggatggaacagtggtaggcgcagcacaccg
D T E A H L E I R E D G T V V G A A H R

cagtcagaaaagtctcctggagctcaaagccttgaagccaggggtcattcaatcctggg
S P E S L L E L K A L K P G V I Q I L G

tgtcaaagcctctaggtttctttgccaacagccagatggagctctctatggatcgctca
V K A S R F L C Q Q P D G A L Y G S P H

ctttgatcctgaggcctgcagcttcagagaactgctgctggaggacggttacaatgtgta
F D P E A C S F R E L L L E D G Y N V Y

ccagtctgaagcccatggcctgcccctgcgtctgcctcagaaggactccccaaccagga
Q S E A H G L P L R L P Q K D S P N Q D

tgcaacatcctggggacctgtgcgttctctgccatgccaggcctgtccacgagcccca
A T S W G P V R F L P M P G L L H E P Q

agaccaagcaggattcctgccccagagccccagatgtgggtcctctgacccctgag
D Q A G F L P P E P P D V G S S D P L S

catggtagagcctttacagggccgaagccccagctatgcgtcctgactcttctgaatc
M V E P L Q G R S P S Y A S

Fig. 30

5000 4000 3000 2000 1000

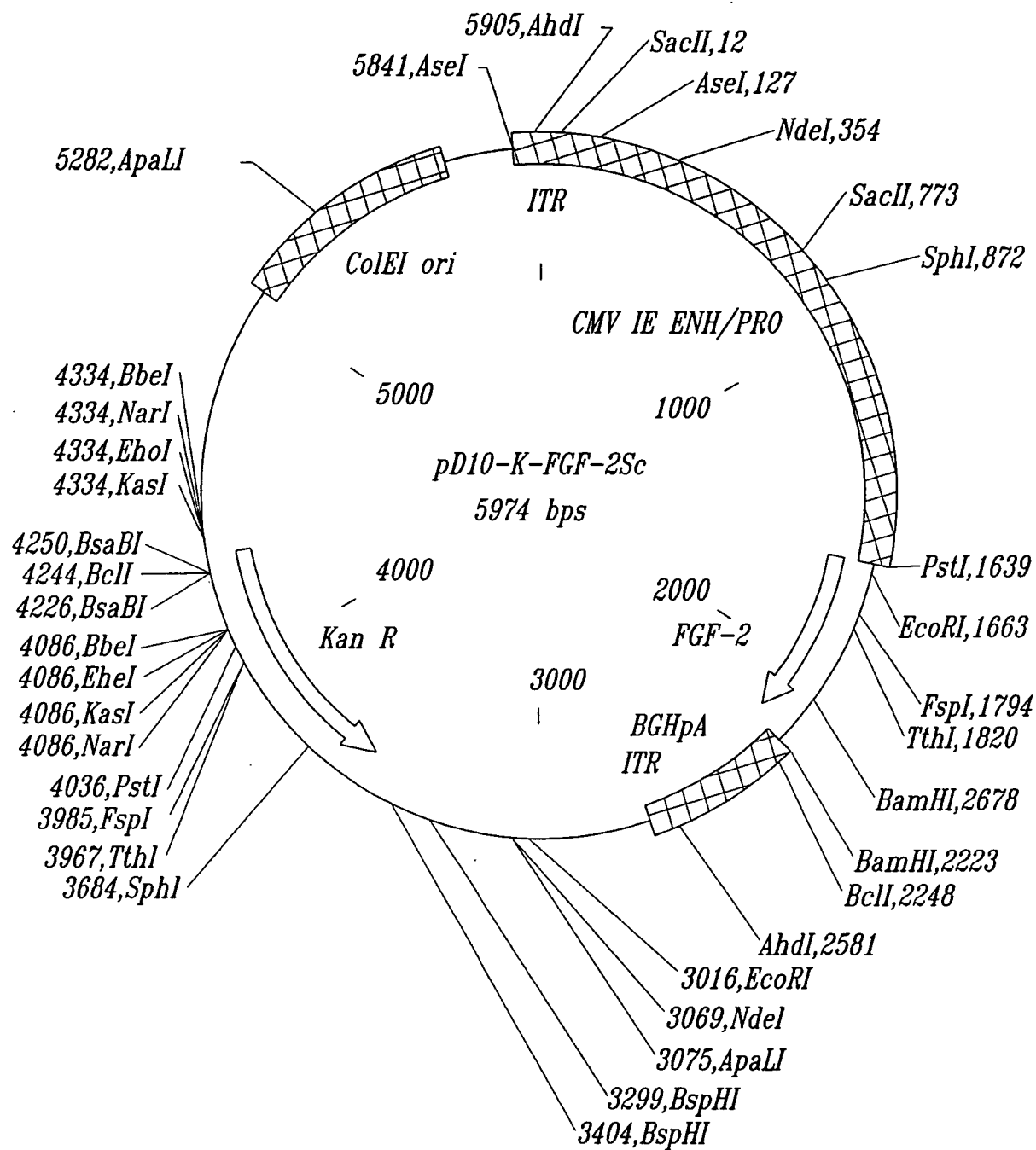


Fig. 31

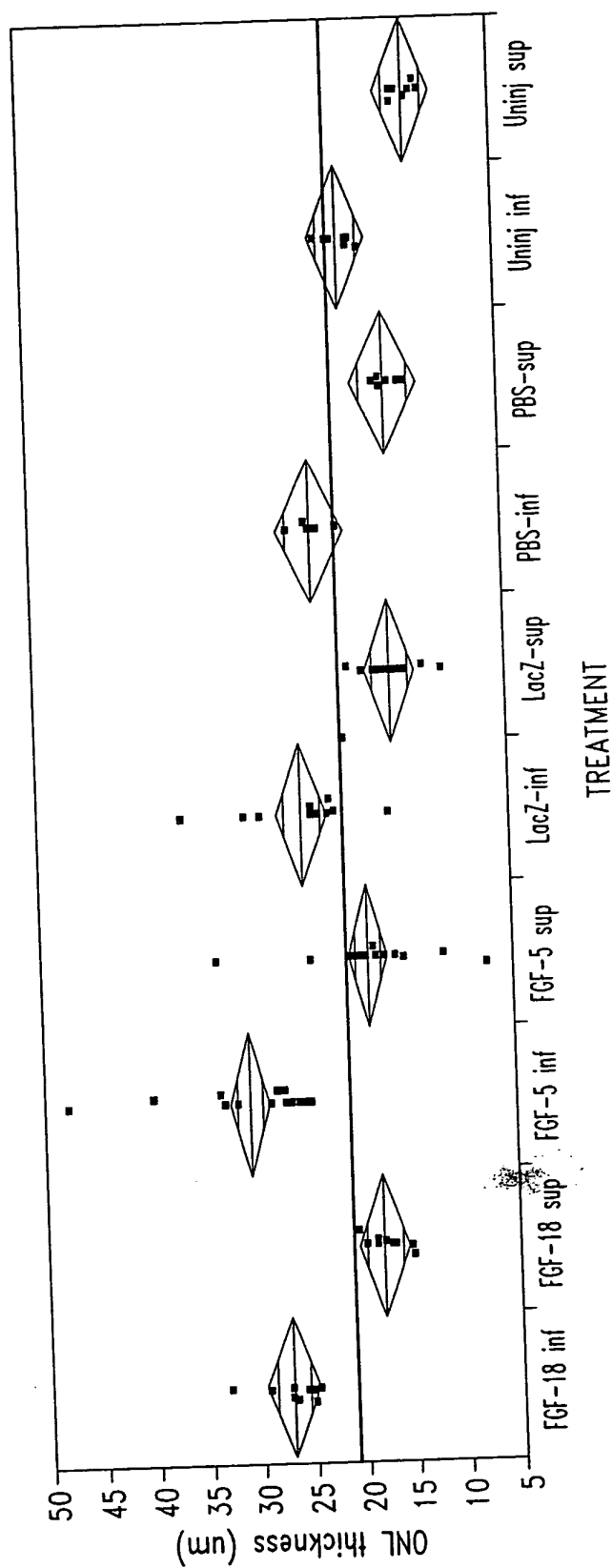
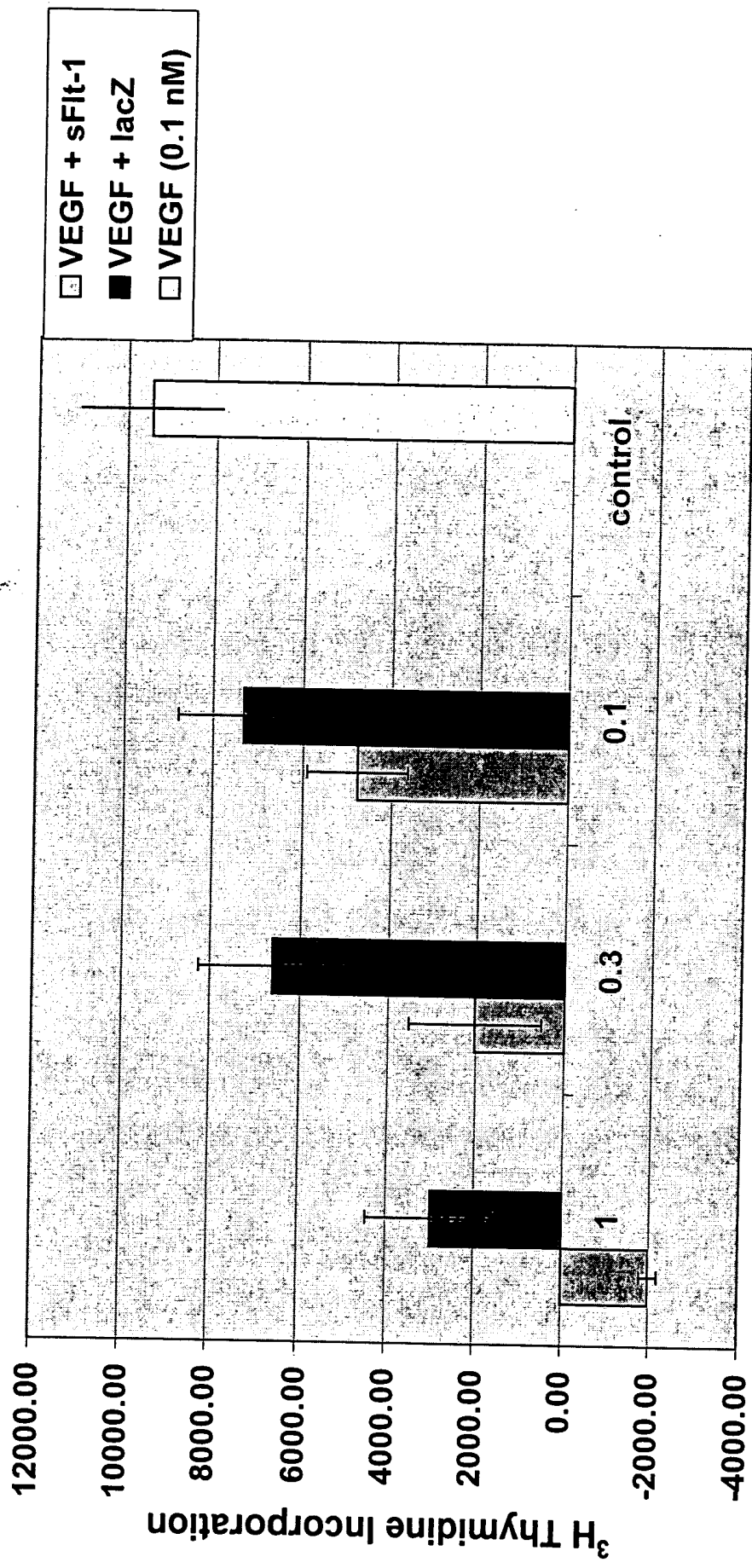


Fig. 33

Inhibition of HMVEC Proliferation by sFlt-1 rAAV



sFlt-1 Protein in Conditioned Media (in nM)

FIGURE 34

A

A

Figure 35. Fluorescein Angiography

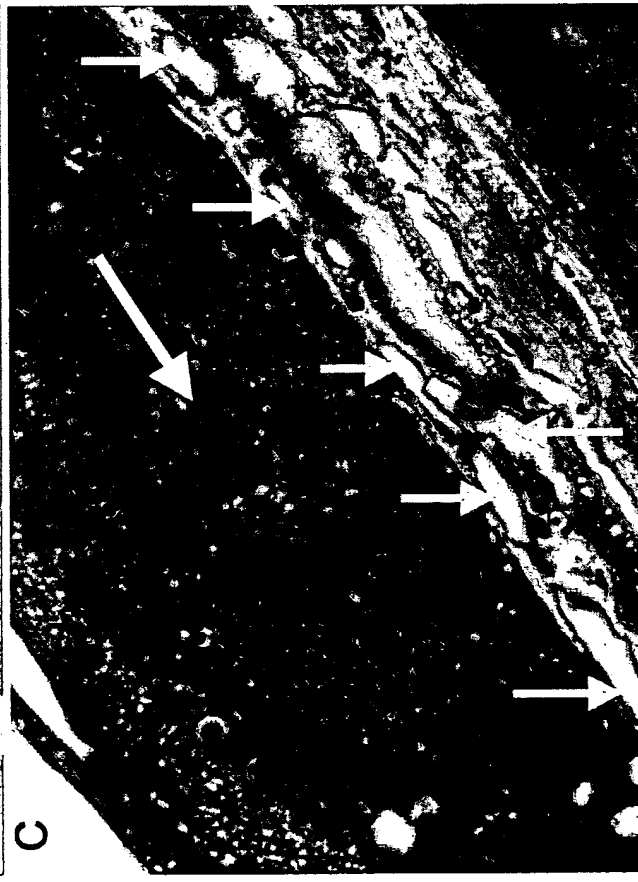
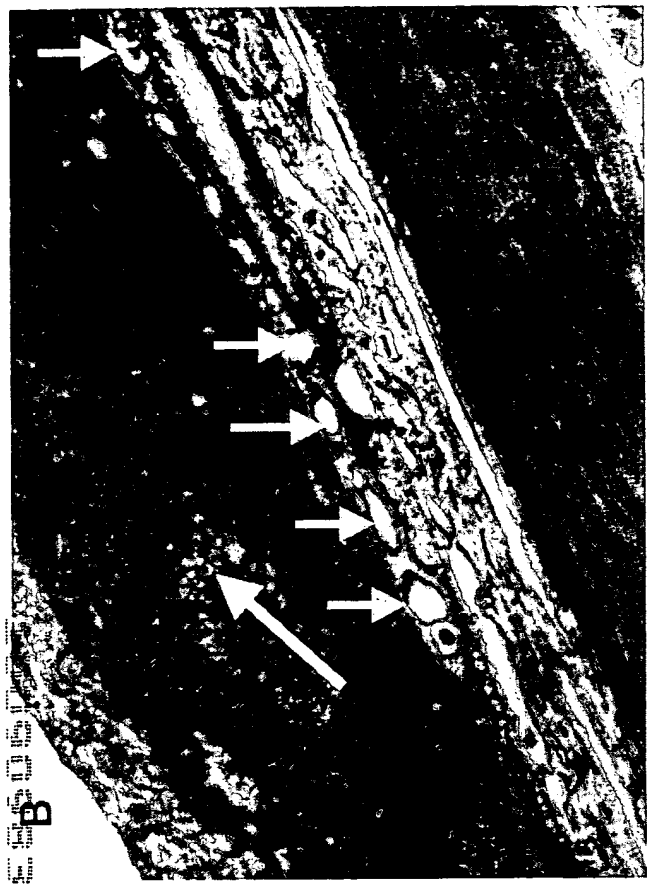
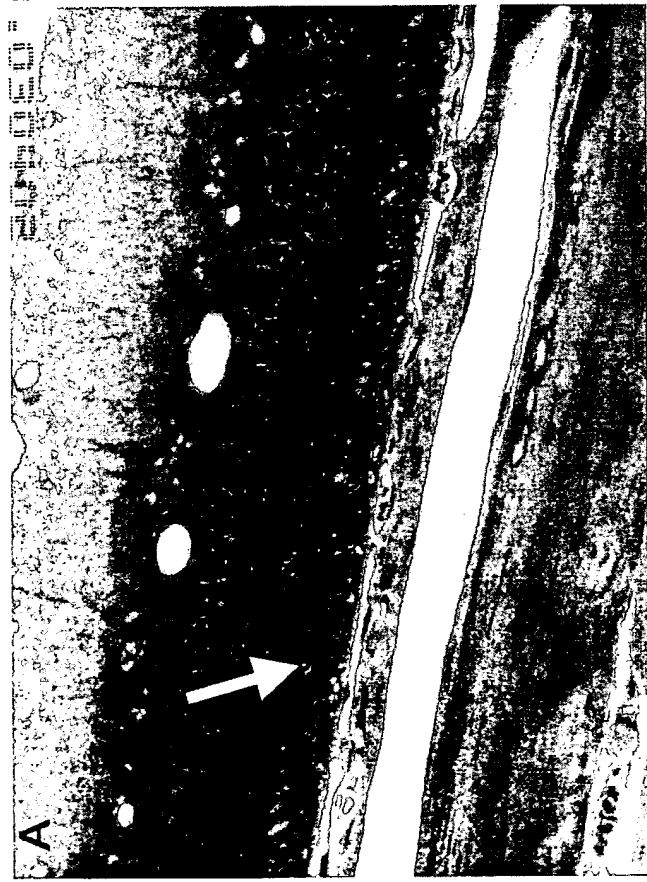


Figure 36. Epoxy Sections

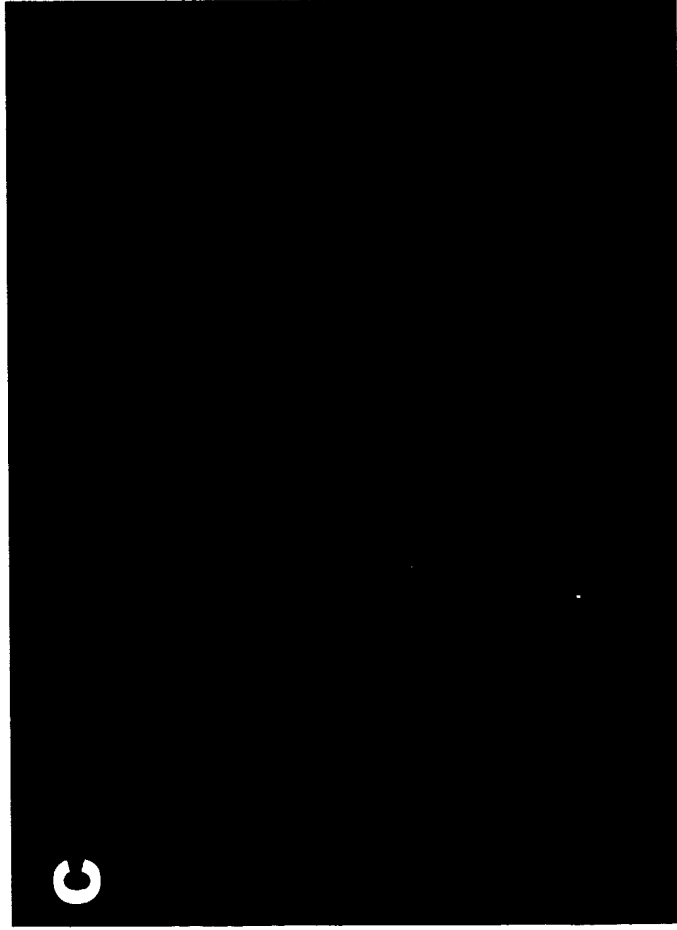
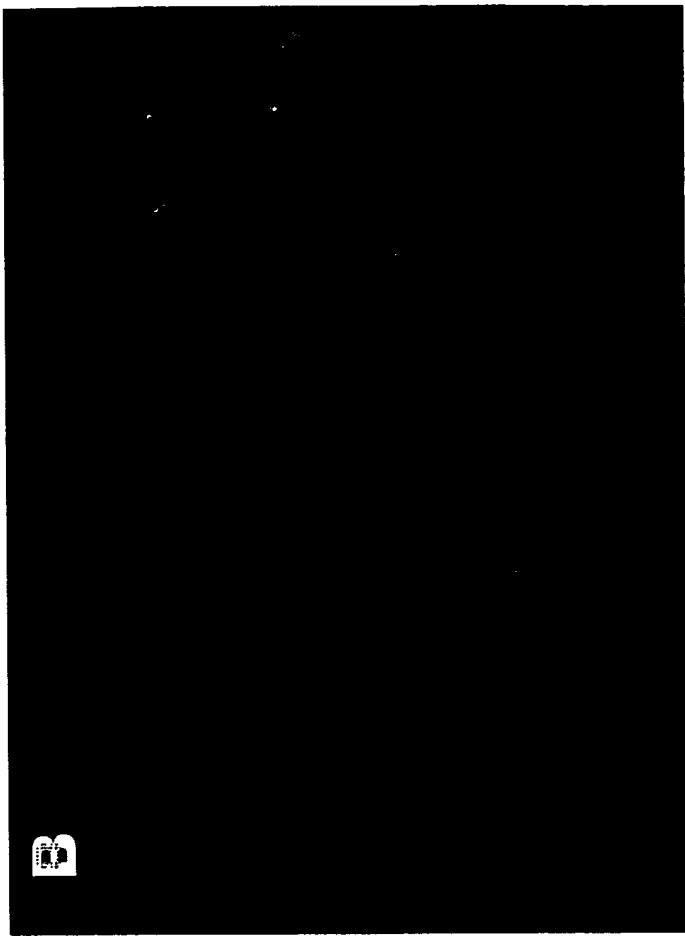
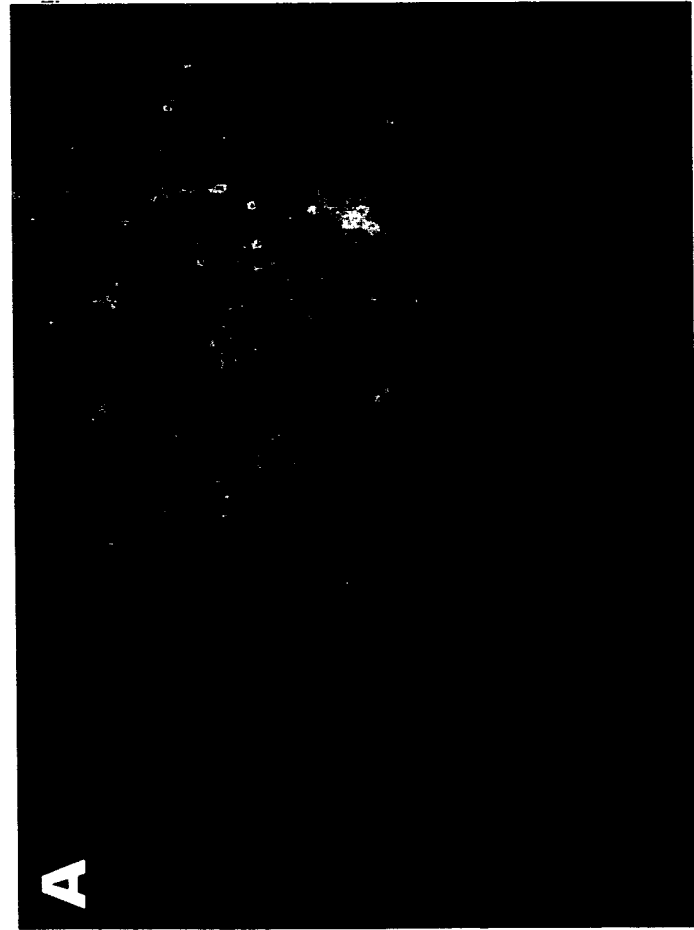


Figure 37. Lectin and BrdU staining

ERG Amplitude Ratio

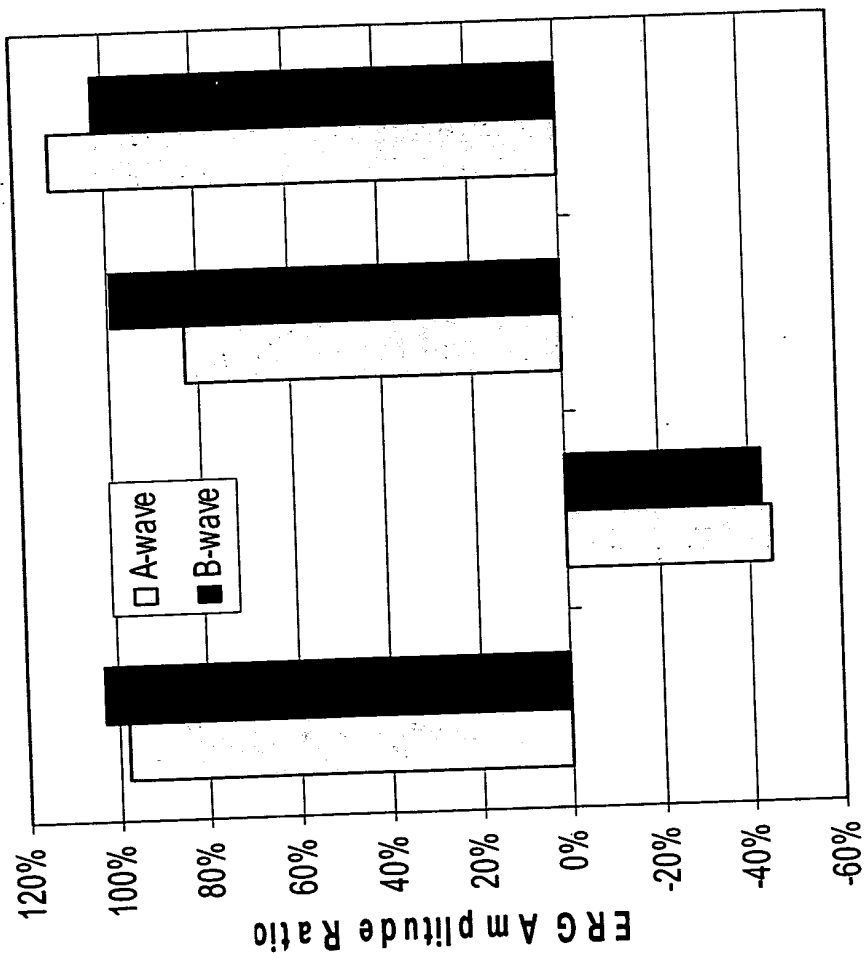


Figure 38A sFlt-1 rescue of ERGs

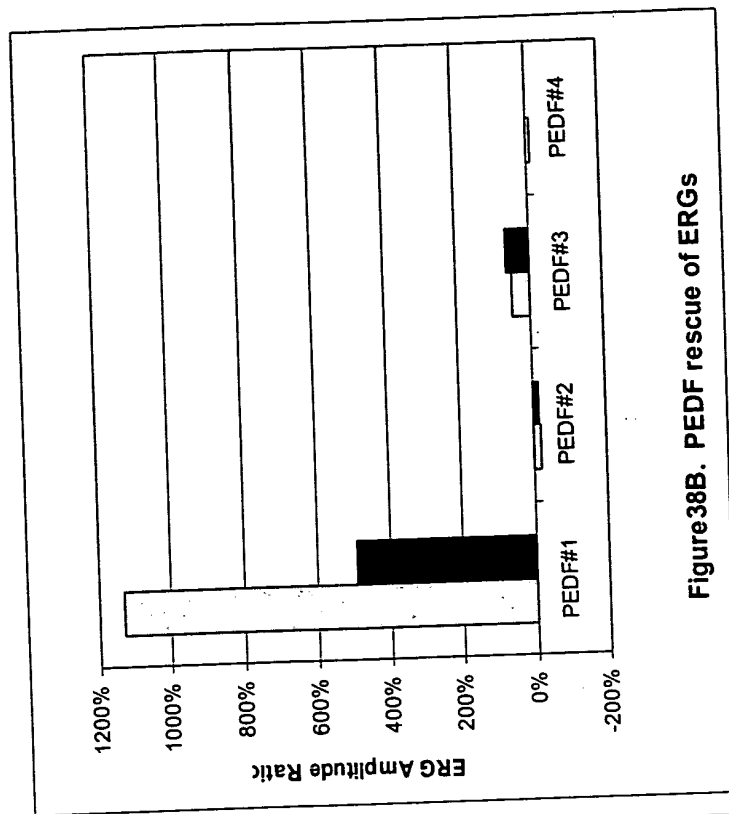


Figure38B. PEDF rescue of ERGs

DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK	DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK
1/1/19	ATM	100.00	1001	CHASE	1/1/19	ATM	100.00	1001	CHASE
1/2/19	ATM	100.00	1002	CHASE	1/2/19	ATM	100.00	1002	CHASE
1/3/19	ATM	100.00	1003	CHASE	1/3/19	ATM	100.00	1003	CHASE
1/4/19	ATM	100.00	1004	CHASE	1/4/19	ATM	100.00	1004	CHASE
1/5/19	ATM	100.00	1005	CHASE	1/5/19	ATM	100.00	1005	CHASE
1/6/19	ATM	100.00	1006	CHASE	1/6/19	ATM	100.00	1006	CHASE
1/7/19	ATM	100.00	1007	CHASE	1/7/19	ATM	100.00	1007	CHASE
1/8/19	ATM	100.00	1008	CHASE	1/8/19	ATM	100.00	1008	CHASE
1/9/19	ATM	100.00	1009	CHASE	1/9/19	ATM	100.00	1009	CHASE
1/10/19	ATM	100.00	1010	CHASE	1/10/19	ATM	100.00	1010	CHASE
1/11/19	ATM	100.00	1011	CHASE	1/11/19	ATM	100.00	1011	CHASE
1/12/19	ATM	100.00	1012	CHASE	1/12/19	ATM	100.00	1012	CHASE
1/13/19	ATM	100.00	1013	CHASE	1/13/19	ATM	100.00	1013	CHASE
1/14/19	ATM	100.00	1014	CHASE	1/14/19	ATM	100.00	1014	CHASE
1/15/19	ATM	100.00	1015	CHASE	1/15/19	ATM	100.00	1015	CHASE
1/16/19	ATM	100.00	1016	CHASE	1/16/19	ATM	100.00	1016	CHASE
1/17/19	ATM	100.00	1017	CHASE	1/17/19	ATM	100.00	1017	CHASE
1/18/19	ATM	100.00	1018	CHASE	1/18/19	ATM	100.00	1018	CHASE
1/19/19	ATM	100.00	1019	CHASE	1/19/19	ATM	100.00	1019	CHASE
1/20/19	ATM	100.00	1020	CHASE	1/20/19	ATM	100.00	1020	CHASE
1/21/19	ATM	100.00	1021	CHASE	1/21/19	ATM	100.00	1021	CHASE
1/22/19	ATM	100.00	1022	CHASE	1/22/19	ATM	100.00	1022	CHASE
1/23/19	ATM	100.00	1023	CHASE	1/23/19	ATM	100.00	1023	CHASE
1/24/19	ATM	100.00	1024	CHASE	1/24/19	ATM	100.00	1024	CHASE
1/25/19	ATM	100.00	1025	CHASE	1/25/19	ATM	100.00	1025	CHASE
1/26/19	ATM	100.00	1026	CHASE	1/26/19	ATM	100.00	1026	CHASE
1/27/19	ATM	100.00	1027	CHASE	1/27/19	ATM	100.00	1027	CHASE
1/28/19	ATM	100.00	1028	CHASE	1/28/19	ATM	100.00	1028	CHASE
1/29/19	ATM	100.00	1029	CHASE	1/29/19	ATM	100.00	1029	CHASE
1/30/19	ATM	100.00	1030	CHASE	1/30/19	ATM	100.00	1030	CHASE
1/31/19	ATM	100.00	1031	CHASE	1/31/19	ATM	100.00	1031	CHASE

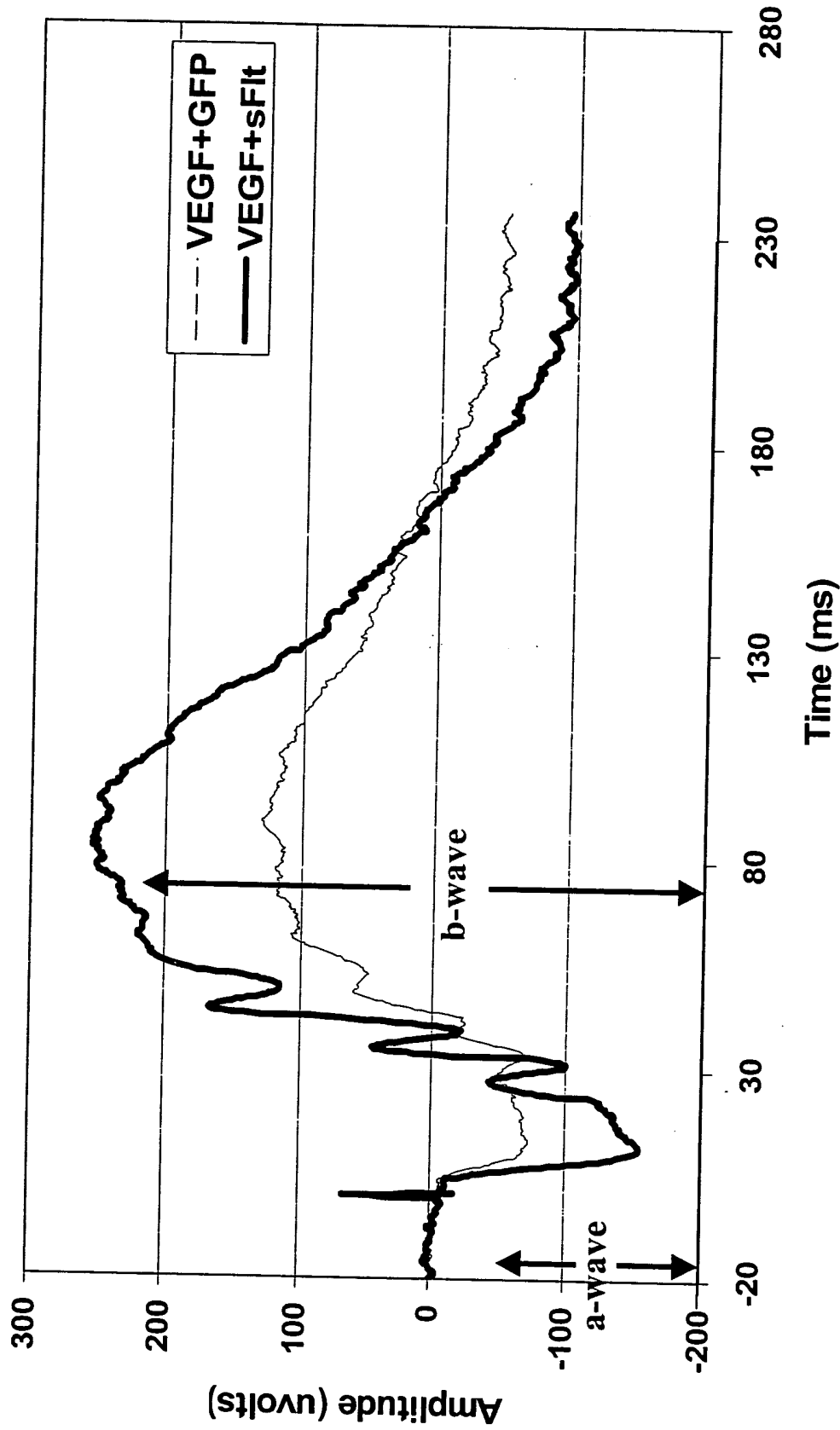


Figure 39. ERG of 070900 Rat#4 on 082300 (6 wk)